

**CLAIMS**

1. A controller equipment comprising:
  - 5 a measuring unit configured to measure channel qualities of a control channel and a user channel separated from a received signal;
  - 10 an updating unit configured to update target circuit qualities for the control channel and the user channel, based on results of measurement of the channel qualities by the measuring units;
  - 15 a communicating unit configured to communicate, in a predetermined period, the updated target circuit qualities for the control channel and the user channel; and
  - 20 a target circuit quality determining unit configured to determine a target circuit quality for the received signal, based on the target circuit qualities for the control channel and the user channel communicated from the communicating unit, so that all of the control channel and the user channel satisfy a required channel quality; wherein,
    - 25 when the channel quality of the control channel satisfies a predetermined condition, the communicating unit is configured to communicate at least the target circuit quality for the control channel to the target circuit quality determining unit; and
    - the target circuit quality determining unit is configured to determine the target circuit quality for the received signal, based on the communicated target circuit quality for the control channel.

2. The controller equipment as set forth in claim 1, wherein the communicating unit is configured to compare the channel quality of the control channel with a predetermined threshold in a period shorter than the predetermined period, and to  
5 communicate the updated target circuit quality for the control channel to the target circuit quality determining unit based on a result of the comparison.

3. The controller equipment as set forth in claim 1, wherein:

10 when the channel quality of the control channel satisfies a predetermined condition, the communicating unit is configured to communicate the target circuit qualities for the control channel and the user channel to the target circuit quality determining unit; and

15 the target circuit quality determining unit is configured to determine the target circuit quality for the received signal, based on the communicated target circuit qualities for the control channel and the user channel.